Welding

Offered at MCC-Business & Technology

This program provides students with training to the standards of the American Welding Society curriculum, which prepares students for the AWS written certification tests, and for employment in the welding/fabrication industry. Students completing the two-year degree will acquire the skills required of managerial and technical training personnel, preparing them to move beyond entry-level jobs into other welding-related careers. Students completing welding certificates can return to school while employed and use course work already completed toward the two-year degree.

A.A.S. Welding Technology and Management..... 60-63 Credits

MIG Certificate ..... 18 Credits

MIG/TIG Certificate ..... 18 Credits

Welding Construction Certificate ..... 18 Credits

A.A.S. Welding Technology and Management

204700 Revised 10/2020 (Fall 2021)

General Requirements		Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 90 with a minimum grade of S or appropriate placement score
HIST 120 HIST 121 POLS 136	United States History to 1865 ***or*** United States History since 1865 ***or*** Introduction to American National Politics	3		
Choose one of the following Math options: **Option #1** MATH 103 MATH 120 And MATH 104 MATH 130 **Option #2** MATH 150	 Technical Math ***or*** College Algebra Technical Math II ***or*** Trigonometry Pre-Calculus	5-6		MATH 31 with a grade of S or appropriate placement (MATH 104) MATH 95 with a grade of C or higher or appropriate placement (MATH 120) MATH 120 with a grade of C or higher or appropriate placement score (MATH 130)
SPAN 100	Beginning Occupational Spanish	3		
COMM 100	Fundamentals of Speech	3		ENGL 90 with a grade of S or appropriate placement score
General Education Electives: Any course(s) numbered 100 or above from the following disciplines: ART, ECON, ENGL, Foreign Language, GEOG (except 104, 110 and GIS Courses), PHIL, PSYC, SOSC		3-5		
Minimum Total General Education Credit Hours		20-23		
Specific Program Requirements				
CIMM 201	Metallurgy	3		
EHSS 111 EHSS 112	Introduction to Health & Safety for General Industry ***or*** Introduction to Health & Safety for Construction	1		
WELD 110	Welding Industry Fundamentals	3		
WELD 120	Thermal Cutting Processes Lecture	1		WELD 110 or concurrent enrollment
WELD 121	Thermal Cutting Processes Lab	2		WELD 120 or concurrent enrollment
WELD 130	Print Reading & Weld Symbols	3		
WELD 140	Shielded Metal Arc Welding I (SMAW) Lecture	1		WELD 121 or concurrent enrollment
WELD 141	Shielded Metal Arc Welding I (SMAW) Lab	2		WELD 140 or concurrent enrollment
WELD 150	Gas Metal Arc Welding I (GMAW) Lecture	1		WELD 121 or concurrent enrollment
WELD 151	Gas Metal Arc Welding I (GMAW) Lab	2		WELD 150 or concurrent enrollment
WELD 160	Gas Tungsten Arc Welding I (GTAW) Lecture	1		WELD 121 or concurrent enrollment
WELD 161	Gas Tungsten Arc Welding I (GTAW) Lab	2		WELD 160 or concurrent enrollment
WELD 230	Layout and Fabrication Lecture	1		WELD 130 and one WELD 100 level lecture & lab
WELD 231	Layout and Fabrication Lab	2		WELD 230 and one WELD 100 level lecture & lab
WELD 240	Shielded Metal Arc Welding II (SMAW) Lecture	1		WELD 141
WELD 241	Shielded Metal Arc Welding II (SMAW) Lab	2		WELD 240
WELD 250	Gas Metal Arc Welding II (GMAW) Lecture	1		WELD 151
WELD 251	Gas Metal Arc Welding II (GMAW) Lab	2		WELD 250
WELD 260	Gas Tungsten Arc Welding II (GTAW) Lecture	1		WELD 161
WELD 261	Gas Tungsten Arc Welding II (GTAW) Lab	2		WELD 260
WELD 270	Flux Core Arc Welding (FCAW) Lecture	1		WELD 151 or concurrent enrollment
WELD 271	Flux Core Arc Welding (FCAW) Lab	2		WELD 270 or concurrent enrollment

WELD 290 Management Skills for the Trades	3		WELD 231 and one WELD 100 level lecture & lab
Total Credit Hours Required	**60-63**		